(19)

PATENT ABSTRACTS OF JAPAN

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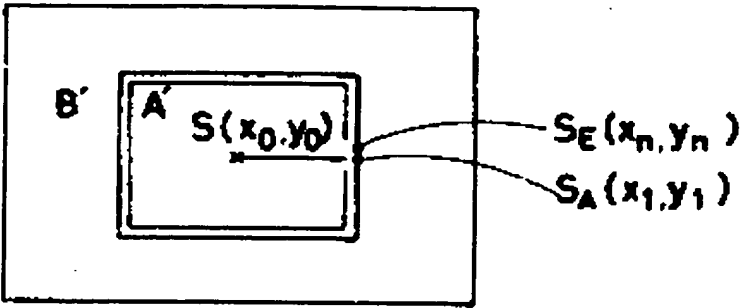|	
(30) Priority:	(71) Applicant: **MATSUSHITA ELECTRIC WORKS LTD**
(43) Date of application publication: **04.12.84**	(72) Inventor: **FURUKAWA SATOSHI YAMATAKE SATOSHI**
(84) Designated contracting states:	(74) Representative:

(54) RECOGNIZING DEVICE OF SHAPE DEFECT

(57) Abstract:

PURPOSE: To make the recognition of a shape defect easy by only detecting the angular change of tangent of a border line.

CONSTITUTION: The border line is traced from a point $SA(x1, y1)$ while viewing an object on the right. x-direction and y-direction addresses $x1, y1Wxn, yn$ of individual border points on the border line are stored successively in a scratch memory. When tracing of the border line is terminated, addresses of the border line are stored in the scratch memory. A difference á Òof an angle Òof the border line vector is calculated on a basis of an address $xN+C, yN+2C$ stored in the $(N+C)$th address of the scratch memory and an address $xN+2C, yN+2C$ stored in the $(N+2C)$th address. It is checked whether a peak value of the difference á Òis a prescribed value or larger or not and whether the position indicating the

peak value is adequate or not to
evaluate degrees of right angles of
four corners of a rectangle.

B′ A′ $S(x_0, y_0)$ $S_E(x_n, y_n)$

$S_A(x_1, y_1)$

x_1	y_1
$\}$	$\}$
x_n	y_n
$\}$	$\}$
x_{N+C}	y_{N+C}
$\}$	$\}$
x_{N+X}	y_{N+X}
$\}$	$\}$
x_n	y_n

$\Delta\theta$

0